

# **Guaranteeing ZFP Control Constants are Used**

## **ZFP**

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#### **1. Introduction**

The 5.0.IFPS version of the ZFP formatter did not always use the default control constants and detail levels set by the IFPS Focal Point and/or forecaster. The 5.0.IFPS Patch #1 addressed this issue, however some changes to the IFPS database are still needed in order to guarantee that your site's values are properly used with ZFP.

This document describes the process needed to ensure this happens...Namely:

1. Launch the IFPS Configuration GUI
2. Verify ZFP control constants and detail levels
3. Copy any missing detail levels via the IFPS Configuration GUI
4. Copy any missing control constants via dbaccess

#### **2. Verifying Initial ZFP Control Constants/Detail Levels and Replacing Missing Values**

In the IFPS database, there are both "active" and "default (factory)" control constants/detail levels. Each of these may be valid for a particular application (e.g. CCF, ZFP) or for "ALL". In order to guarantee that the ZFP formatter will always retrieve the versions you want it to retrieve, you should verify that each constat/detail level is in the database as "active" for "ZFP". To do so:

##### **1. Log in as user ifps**

- `su - ifps`

##### **2. Set the DISPLAY**

- `export DISPLAY=<display>` (where <display> = the name of the screen you're working with)

##### **3. Run the IFPS Configuration Menu**

- `cd /awips/adapt/ifps/bin`
- `./awips/adapt/ifps/localbin/ifps-ccc.env` (where ccc=WFO id)
- `./config_ifps ccc` (where ccc=WFO id)

#### 4. Navigate to the Menu

- select the "Product Generation" button
- select the "Customize Phrases" button
- select the "Control Constants" button

#### 5. Determine the current ZFP control constants defaults

- Change the "Product" selector bar to "ZFP"
- Verify that the following are in the "Item" window: banners, combined\_periods, extended, determine\_changes, issue\_type, precip\_style, sentence\_spaces, short\_set, snow\_accum\_pop, wind\_gust, cloud\_control, precip\_control, snow\_control, temp\_control, wind\_control
- Make a note of any of the above which are NOT in the "Item" window (will be added in a later step)
- Verify that the "active values" are correct for each "Item" by selecting the "Item", then cycling through the Members by the arrow buttons. Correct any values you wish via the "Modify Value" button.

#### 6. Determine the current ZFP detail level defaults

- Select File->Exit from the "Configure Other Control Constants" window
- Select the "Detail Levels" button
- Change the "Detail levels for" selector bar to "ZFP"
- If 00Z detail levels are incorrect, set them as you wish.
- If 00Z detail levels are missing, select the "Initialize..." button, then select "ALL 0Z CCC Active" and click on the "OK" button. Click on the "Save" button.
- Change the cycle represented by the selector bar at the top, then repeat the previous 2 steps for the 12Z detail levels.
- Select File->Exit

#### 7. Exit completely from the IFPS Configuration Menu by selecting "OK" four times.

#### 8. Unload the "ALL" versions of the missing "ZFP" control constants and re-load them as "ZFP"

- dbaccess ifps\_ccc (where ccc=WFO id)
- [Q]uery Language
- [N]ew
- unload to "/tmp/aconsts.unl" select \* from cntrl\_const where use='A' and prod\_id='ALL' and item in ('item1','item2','item3','item4') order by item,member,cycle; (where item1,item2,etc are from step 5)
- unload to "/tmp/dconstns.unl" select \* from cntrl\_const where use='D' and prod\_id='ALL' and item in ('item1','item2','item3','item4') order by item,member,cycle; (where item1,item2,etc are from step 5)
- <esc>
- [R]un
- [E]xit, twice
- test
- cd /tmp

- sed '/^ALL/s//ZFP/g' aconsts.unl > aconsts\_zfp.unl
- sed '/^ALL/s//ZFP/g' dconsts.unl > dconsts\_zfp.unl
- dbaccess ifps\_ccc (where ccc=WFO id)
- [Q]uery Language
- [N]ew
- load from "/tmp/aconsts\_zfp.unl" insert into cntrl\_const;
- load from "/tmp/dconsts\_zfp.unl" insert into cntrl\_const;
- <esc>
- [R]un
- [E]xit, twice